

Functional Area 5.7

GROUNDS MAINTENANCE

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List of Technical Exhibits

Exhibit Number

Title

5.7-001

Contract Data Requirements Lists (CDRLs)

5.7-002

Required Scheduled Tasks

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Functional Area 5.7

GROUNDS MAINTENANCE

5.7.1 INTRODUCTION

The Contractor shall perform maintenance and repair of grounds, landscaping, unimproved areas, associated structures and appurtenances. The Contractor shall perform mowing, trimming, edging, aeration, and fertilization; weed and brush control; flower bed services; tree and shrub pruning; erosion control; debris, drain, and ditch cleanup; soil sampling for deficiencies of pH; inspecting and correcting damage caused by pest infestation, vehicles, and storms; landscaping operations; and other services as required herein to provide complete grounds maintenance. All work shall be performed by qualified personnel in accordance with applicable laws, regulations, and documents in Section C-6 which include, but are not limited to, AR 420-74, AR 200-1, AR 200-2, TM 5-630, and Government developed annual and long range plans. Technical Exhibits provide expanded information for this Functional Area.

5.7.2 SCOPE OF SERVICES

5.7.2.1 Work Area/System Description

Grounds areas are segregated into the following categories: improved grounds and unimproved grounds. Improved grounds are those areas which encompass buildings and facilities and include lawn areas, ornamental bushes, and trees. There are 2210 acres of improved grounds on Fort Lee. Unimproved grounds are those areas which are located about the perimeter of the Installation and include natural grass, brush, and trees. There are 803 acres of unimproved grounds on Fort Lee. Unimproved areas shall be maintained only to the level necessary to prevent fire hazards or obstructions which would cause traffic hazards, and to prevent problems arising from excess dust, erosion, pests (e.g., insects or vermin), and noxious weeds. Grounds areas covered under this Contract include, but are not limited to, the following:

- Parade areas
- Common grounds areas
- Playgrounds and recreational areas
- Athletic fields
- Range areas/drop zone
- Maintenance areas
- Warehouse areas
- Transportation vehicle storage and staging areas
- Utility plant areas (e.g., water/wastewater treatment, boiler/chiller, and power production/distribution plants)

A map of areas to be mowed and maintained under this Contract is provided in the Technical Library.

5.7.2.2 Work Management and Control

5.7.2.2.1 Fort Lee Integrated Natural Resources Management Plan. The Contractor shall annotate a copy of the existing Fort Lee Integrated Natural Resources Management Plan (CDRL 507R001) with recommendations for update and other improvements in the land management area. The Contractor shall submit the annotated plan to the COR and implement it after approval.

5.7.2.2.2 Reporting Requirements. The Contractor shall prepare, submit, and maintain all records and reports as specified herein and in accordance with Technical Exhibit 5.7-001.

5.7.2.2.3 Publications and Forms. Specific publications and forms required for the accomplishment of work described in this Functional Area are listed in Section C-6.

5.7.3 SCHEDULED TASKS

The Contractor shall perform the tasks below on a recurring or scheduled basis and record the work under approved Standing Operating Orders (SOOs). Preventive maintenance and other scheduled tasks that apply to this Functional Area are presented in Technical Exhibit 5.7-002.

5.7.3.1 Mowing

5.7.3.1.1 Areas to be Mowed. The Contractor shall maintain the grounds and road shoulders for the areas specified in the Technical Library. Clippings shall not be allowed on surfaced areas. The Contractor shall collect and dispose of any grass clippings which fall or blow onto streets or sidewalks by the end of the work day.

5.7.3.1.2 Mowing Standards. Grass shall be maintained at a level of 2" to 3" in improved areas and less than 6" in unimproved areas. An acceptably-cut grassed area shall be cut to a uniform height. Grass cutting is to be accomplished in a manner such that it is not uneven or rough and is free of scalping, rutting, and bruising. The Contractor shall ensure that mower blades are sharpened to prevent shredding of grass ends during mowing operations. In lieu of collecting and disposing of grass clippings, the Contractor may use mulch-type mowers when grass height does not exceed 3 1/2 inches in unimproved areas only. The Contractor shall ensure that all ruts are repaired within two working days of lawn mowing completion. Grass in ditches shall be maintained according to the maintenance level specified for the surrounding area and cut such that the flow of water will not be impeded during storms and heavy rainfall.

5.7.3.1.3 Other Responsibilities. Prior to mowing, the Contractor shall pick up and remove all rubbish, debris, and trash (which includes, but is not limited to, leaves, rocks, paper, pine cones, limbs, and other portable objects) within the maintenance area and all trash, papers, leaves, and limbs lodged in shrubs, hedges, fences, and along foundation walls. All clipping rubbish, debris, and trash removed shall be properly disposed of as directed by the COR. In conjunction with mowing services, the Contractor shall inspect grounds for trash and debris buildup, possible fire hazards, and pest activity. Corrective action, if required, shall be initiated in

accordance with the Service Order or Individual Job Order provisions of Paragraph C-5.1.

5.7.3.2 Edging

Edging of sidewalks, driveways, curbs, and other paved surfaces and around plant beds and other cultivated areas shall be performed so that there is no vegetative overgrowth on the pavement or curb area. Edging is to be even and accomplished in a manner such that it is free of scalping, rutting, bruising, and roughing. The Contractor shall make clean vertical cuts at the junction of turf or soil and concrete and do so in a manner that does not cause erosion by ditching. All edging debris shall be collected and disposed of on the same day the material is generated. Areas to be edged will be identified on the map in the Technical Library.

5.7.3.3 Weed and Other Noxious Plant Control

The Contractor shall control weeds and unwanted grasses. The Contractor shall remove weeds and grasses from the base and around plant pits in order to protect and enhance the appearance of the plants. The Contractor shall not use power equipment within ten inches of the base of plants for any purpose. Weed control shall be accomplished by using cultural, manual, and mechanical control. Manual methods shall result in the complete removal of weeds and their roots. Mechanical methods shall be used for trimming and edging the perimeter of mulched areas only. The Contractor shall replace plants that are damaged by power equipment with the same species and size within five working days. Cutting off or mowing weeds within mulched areas is not an acceptable practice. Weed control shall be provided in the following areas:

5.7.3.3.1 Rail Yard. Ballast areas of the rail yard shall be maintained free of all vegetation. Ballast and paved ditches shall be maintained free of all vegetation as required for all maintenance levels from March through September.

5.7.3.3.2 Utility Right-of-Way. Weeds and brush in utility right-of-ways to the edge of existing tree lines shall be controlled by mowing or other methods approved by the COR. The Contractor shall maintain grass for erosion control.

5.7.3.3.3 Surfaced, Parking, and Storage Areas. Growth of vegetation in paved and unpaved parking and storage areas, cracks in paved roads, and sidewalk and curbing joints shall be prevented as required for all maintenance levels from March through September. Growth of vegetation on unpaved roads shall be prevented.

5.7.3.4 Memorials

The Contractor shall maintain official memorials year-round. The Contractor shall inspect the plants and trees semi-annually, or more frequently if necessary, and perform needed maintenance of plants and trees to keep them in a healthy, growing condition.

5.7.3.5 Inspection of Culverts

The Contractor shall inspect culverts on Bailey Creek weekly and all storm drains as needed to maintain the free flow of storm water.

5.7.4 UNSCHEDULED TASKS

The Contractor shall perform the tasks described below when initiated through either a Service Order (SO) or an approved Individual Job Order (IJO). The Contractor shall provide miscellaneous labor support to various agencies, such as installing lines, windsocks, handrails, machinery, and recreational equipment. The Contractor shall perform unscheduled grounds maintenance, to include mowing, vegetation removal, earth fill for erosion control, and other services, as requested by the COR.

5.7.4.1 Trimming

The Contractor shall perform trimming in conjunction with each mowing for improved areas and as directed by the COR. The grass shall be trimmed from around trees, shrubs, cultivated areas, fences, poles, guard posts, fire hydrants, buildings, structures, parking lot bumper blocks, walls, sprinkler heads, valves, and other similar objects to match the height and appearance of surrounding vegetation without causing damage to desirable vegetation. String trimmers shall not contact the bark of the tree, shrubs, or building skirting. After trimming, all cuttings and other debris shall be removed from the sidewalks and paved areas and disposed of properly.

5.7.4.2 Mulching

The Contractor shall mulch throughout all plant and shrub beds and around designated ornamental and shade trees for weed and grass control, soil conservation, and to minimize moisture evaporation. The mulch cover shall consist of bark mulch or other materials approved by the COR and shall be free of grass and weeds. Mulch will be added to a minimum depth of three inches and a maximum depth of four inches and shall extend beyond the perimeter of beds to established borders such as sidewalks, pavements, curbs, or walls. In the absence of established borders, mulch shall extend to the drip line of perimeter plants and shrubs. Mulch around designated ornamental and shade trees that are not growing in plant or shrub beds shall extend out from the base of each tree for a distance of 18 inches.

5.7.4.3 Trees and Shrubs

5.7.4.3.1 Planting. The Contractor shall plant trees, shrubs, hedges, plants, and grasses as designated by the COR to replace those lost to disease, winter-kill, drought and damage, acts of God, or those with unsightly appearance. Replacement vegetation shall be of the identical species and in like numbers. In addition, the replacement shall be of identical size, when appropriate, for all vegetation; maximum diameter size for tree replacement shall be of six inches. The work shall include bed preparation, planting, mulching, guying, watering, and wrapping on a year round basis. Plants which lean or sag shall be straightened and plants which develop more than a normal amount of settlement shall be adjusted. Native collected materials may be used when available. Plant materials shall conform to industry standards as outlined in American Standards for Nursery Stock ANZI Z 60.1-1980. Allowable tree sizes are as follows:

- Shade trees - 1 3/4" - 2" caliper or 10' - 12' in height.
- Flowering trees - 3/4" - 7/8" caliper or 6' - 8' in height.
- Evergreen trees - 4' - 5' in height.

5.7.4.3.1.1 **Planting Requirements.** The Contractor shall plant balled and burlapped container grown tree or spade obtained trees and balled or container grown shrubs having ball sizes and ratios conforming to ANSI Z60.1 and in accordance with the Fort Lee Integrated Natural Resources Management Plan. Excavation for trees and shrub placement shall be at least 1-1/2 times rootball size in depth and width. The Contractor shall use planting soil composed of seven parts by volume topsoil and three parts by volume organic amendment and/or seed or sedge peat fertilizer and water retention amendment as the label directs. The Contractor shall ensure the pH is between 5.0 and 5.5 for azaleas, gardenias, and holly, and between pH 5.5 and 6.5 for all other shrubs. Trees and shrub replacement shall be accomplished between November 1 and March 1 each year; however, no planting shall be performed when the ground is frozen. The Contractor shall water newly planted trees and shrubs as needed unless otherwise directed by the COR. This watering is generally necessary until the planted trees and shrubs have completed the first growing season.

5.7.4.3.2 **Tree Removal.** The Contractor shall remove dead trees and trees which are a hazard or nuisance because of location, e.g., near electric lines or roads. The work shall include complete removal of trees, stumps, and debris; filling of hole with topsoil; and the seeding and mulching of the bare ground area. Logs, debris, and woodchips shall be deposited in the area designated by the COR. Bare ground areas shall be seeded with Fescue 31 or as approved by the COR, as appropriate. Tree disposal shall be carried out off-Installation in accordance with all Federal, State, and local laws.

5.7.4.3.3 **Stump Removal.** The Contractor shall remove existing stumps to six inches below ground level, fill hole with topsoil, and seed bare ground area with Fescue 31 and mulch or material approved by the COR. All wood chips and debris shall be deposited off-Installation in accordance with all Federal, State, and local laws.

5.7.4.3.4 **Pruning and Trimming.** The Contractor shall trim and prune shrubs, ground covers, native plants, and trees planted in improved grounds. The Contractor shall trim hedges, bushes, and shrubs. All wood chips and debris shall be deposited off-Installation in accordance with all Federal, State, and local laws.

5.7.4.3.4.1 **Shrub Pruning.** All shrubs, bushes, hedges, and other cultivated plants are to be pruned according to their natural growth habit for proper health, attractive appearance in the appropriate season, and to prevent interference with pedestrian and vehicular traffic. Shrub pruning shall be accomplished throughout the year. Pruning is to be done in a manner so as to:

- a. Prevent growth in front of windows, over entrance ways or walks, and in all areas in which growth will obstruct vision at street intersections
- b. Remove and dispose of dead, damaged, or diseased wood
- c. Evenly form and balance the shrub, bush, or plant
- d. Maintain the established hedge shape and appearance.

5.7.4.3.4.2 **Tree Pruning.** Pruning shall evenly form and balance the tree, promote proper health and growth, and prevent interference with pedestrian and vehicular

traffic. Trees are to be pruned to a uniform height; tree growth around the base of the tree shall be removed. Pruning is to be done in a manner so as to:

- a. Remove dead, damaged, or diseased wood, parasitic vegetation, and structurally weak limbs that may cause a safety hazard
- b. Remove branches to provide clearance over sidewalks, parking lots, driveways, buildings and roofs; eaves, and windows that are in danger of damage
- c. Remove branches to provide clearance for buses, moving vans, and similar vehicles along streets and road systems
- d. Cut back branches that overhang or grow into power lines
- e. Shape the entire tree rather than notch the top
- f. Prevent growth of small trees in front of windows, over entrance ways or walks, and in areas in which growth will obstruct vision at street intersections and within a six-foot radius of facilities
- g. Promote proper health, growth, and appearance.

Stakes and guy wires shall be removed one year after planting of the tree, or as required. Pruning shall be accomplished in accordance with the National Arborist Association Standards for pruning, guying, and fertilizing shade trees

5.7.4.3.4.3 Plant, Ground Cover, and Vine Planting. The size of plants, ground cover, and vines shall follow the guidelines found in Paragraph 5.7.4.3.1.1. Plant, ground cover, and vine replacements shall be accomplished between March 1 and June 1.

5.7.4.4 Fertilizer and Lime Application

The Contractor shall take soil samples as needed for analysis of pH, nitrogen, phosphorous, potassium, and nitro-nutrients. The Contractor shall also fertilize plants, grasses, and ground covers at the time of planting and transplanting. The Contractor shall apply a variety of chemical and organic fertilizers in combination or in single application to correct soil and plant deficiencies, but as not to burn root system. The Contractor shall apply commercial fertilizer based on the chemical composition and application time and rates recommended by the analyzing laboratory. When recommended, the Contractor shall apply weed-free organic manure. Lime, when required by soil sample results, is to be applied during the November/December time period. Only dolomitic agricultural lime shall be used.

5.7.4.5 Grass Planting and Sodding

5.7.4.5.1 Seeding. The Contractor shall prepare a proper seed bed. The Contractor shall seed designated areas to ensure a full even lawn growth throughout seeded areas with no bare or uneven spots after six weeks of growth from the time of seeding. Bare spots exceeding 1/2 square foot will be re-sodded with the prevalent sod. Grounds areas where seed will not germinate shall be sodded to establish turf. The Contractor shall apply topsoil to new lawn areas at a depth of 4 inches. The Contractor shall spread topsoil to an even and level appearance in conjunction with

contours specified for the area and shall fill holes and ruts in the area prior to being dressed with topsoil.

5.7.4.5.2 Seeding in Housing Areas. Fescue 31 grass shall be used in housing areas, improved and unimproved grounds, and range areas. The Contractor shall grade, remove debris, cultivate, seed, and mulch disturbed areas with straw. Grass shall be applied at the rate of .75 lb. hulled seed per 1,000 sq. ft. for parade fields and playgrounds. In heavily shaded areas, Red Fescue shall be applied with Fescue 31 at the rate of 1.5 lb. per 1,000 sq. ft.

5.7.4.5.2.1 Fall Seedings. Fall seedings shall take place between 1 September and 31 March and shall use a mixture of annual rye grass and unhulled Fescue 31 grass. Straw mulch shall be applied at the rate of two tons per acre (approximately 90 lb./1000 sq. ft.).

5.7.4.5.3 Maintenance of Cool Season Grass Cover. Upon receipt of a valid work document, the Contractor shall establish and maintain an annual cool season grass cover for improved areas during the fall and winter growing season and replace these areas with perennial warm season grass as scheduled. Varieties of grasses to be used shall be the same as the dominant surrounding warm season grass. Any variations to these varieties must be approved by the COR prior to application. Grassed areas damaged by vehicular traffic shall be graded, seeded, or sodded and irrigated as specified in TM 5-630 and the Fort Lee Integrated Natural Resources Management Plan, until the desired grass is established to conform to adjacent turf areas. On high pedestrian traffic areas and road intersection shoulders, roping off is required until the grass is established. The Contractor shall accomplish grass planting and sodding year round.

5.7.4.5.4 Overseeding. The Contractor shall overseed designated lawn areas or as requested by a valid work document. The Contractor shall prepare areas of lawns that have no grass with topsoil before overseeding. Fall overseeding shall be accomplished between 15 August and 30 September. Damaged or thinning turf may be overseeded in early Spring between 1 April through 15 May. The Contractor shall remove thatch, aerate, plant seed, apply an appropriate over-covering (e.g., topsoil, straw, etc. depending on climate and other conditions), and irrigate. Overseeding seed mixture shall include turf perennial rye grass. Rate of application shall be 4 lb. per 1,000 sq. ft.

5.7.4.6 Debris Removal

The Contractor shall clean, remove, and dispose of debris from various areas such as remodeling jobs, new construction sites, sewage ponds, shop hoppers, improved grounds, and unimproved grounds. The Contractor shall dispose of debris at areas designated by the COR.

5.7.4.7 Storm Damage

The COR will notify the Contractor when the Fort Lee Severe Weather Emergency Action Plan (SWEAP) is in effect after which time the Contractor shall clean up wind and storm damage. The Contractor shall remove as priority work all fallen trees, limbs, and debris deposited by water runoff on improved grounds after periods of heavy wind or rainfall. The Contractor shall dispose of storm debris off-Installation in accordance with all

Federal, State, and local laws. Routine maintenance work shall be suspended during periods deemed necessary by the COR for storm damage cleanup.

5.7.4.8 Recreation Area Support

The Contractor shall support recreation activities at Fort Lee recreation areas.

5.7.4.9 Building Debris Clearance

The Contractor shall clear debris from building sites when property has been disposed of by the Government. The debris shall be disposed of off-Installation in accordance with all Federal, State, and local laws.

5.7.4.10 Special Events

The Contractor shall provide support, as required, for special activities or events on the Installation, such as the Special Olympics, Armed Forces Day, and other events deemed necessary by the Government.

5.7.4.11 Utility Service Support

The Contractor shall provide utility service support to include, but not be limited to, the replanting of grass, trees, and shrubs to restore areas to original appearance after the repair of underground utilities has been completed.

5.7.4.12 Decorative Materials

The Contractor shall install, repair, replace, and remove a variety of decorative materials upon receipt of a valid work document.

5.7.4.13 Establishing New Landscape Areas

The Contractor shall establish new landscape areas as specified on a valid work document.

The Contractor shall layout and prepare new landscape areas in accordance with the above paragraphs on soil preparation, seeding, revegetating, irrigating, and fertilizing, and by performing various tasks such as:

5.7.4.13.1 Drainage. The Contractor shall layout, excavate, and install various types of drainage systems such as intercepting, french, blind, perforated pipe, and diversion drainage to facilitate proper water drainage as specified on a valid work document.

5.7.4.13.2 Wind Breaks. The Contractor shall plant and maintain windbreaks to protect areas from wind erosion by planting trees at various locations.

5.7.4.14 Soil Conservation

The Contractor shall root plow and seed various areas such as ranges, firebreaks, forest areas, and drainageways for soil conservation. The Contractor shall seed various types of grass such as love grass, buffalo grass, and other grasses acclimated to the local area.

5.7.4.14.1 Soil Erosion. The Contractor shall implement the soil erosion program as prescribed in the Fort Lee Integrated Natural Resources Management Plan. The Contractor shall take an active role in identifying any developing erosion areas not already identified in the plan.

5.7.4.14.2 Root Plowing. The Contractor shall make range improvements and restoration to prevent soil erosion and help promote wild life. The Contractor shall root plow and disk harrow areas to kill all existing shrubs at a depth of 1 to 3 feet deep, based on root depth, then reseed the areas with native grasses. The Contractor shall clear brush before root plowing.

5.7.4.15 Excavation Support

The Contractor shall support other DPW functions, such as the pipefitting and electrical trades, by providing equipment and manpower for excavation support. The Contractor shall perform various tasks such as removal of debris, providing backfill materials, backfilling excavated areas, and dressing areas to match existing landscape (e.g., adding topsoil, reseeding, planting, and adding gravel). The Contractor shall dispose of debris off-Installation in accordance with all Federal, State, and local laws.

5.7.4.15.1 Excavation. The Contractor shall mark the intended dig with white paint and call Miss Utility before starting any excavation of 6" or greater below the surface on any area. All utility lines are to be marked within 72 hours after the call. The Contractor shall notify the COR within one hour when utility lines or components have been damaged or unearthed during excavation. The Contractor shall remove any shrubs or trees necessary to excavate, unearth, and remove any debris to reach the work area. Upon completion of repairs or installation, the Contractor shall fill the hole, grade, replace landscaping, and seed/straw the excavation area, as required, to return it to its original condition. The excavated area shall be secured with barricades when unattended.

5.7.4.16 Stockpile Area

The Contractor may use the fenced area behind Building 7108 to stockpile needed materials, including topsoil, brick, sand, mulch, crushrow, and rip rap.

5.7.4.17 Hauling Materials

The Contractor shall deliver various types of materials, to include, but not be limited to, topsoil, crushed stone, brick, sand, river rock, bark mulch, logs, tree debris, asphalt (hot and cold), fill dirt, and trash.

5.7.4.17.1 Construction Materials. The Contractor may use the unfenced area behind Building 7108 to temporarily store construction debris such as wet soil from water line breaks and ditches, tree debris, and any other materials approved by the COR. The debris must be cleared within three months.

5.7.4.17.2 Waste and Spoil Materials. The Contractor shall respond with an Emergency Response Team to remove Contractor-generated hazardous waste upon call 7 days a week and 24 hours a day if needed. The Contractor shall haul the waste or spoil materials, usable materials, equipment, machinery, supplies, and water to and from such areas as storage areas, job sites, ranges, and approved off-Installation dump sites. The Contractor shall also haul waste materials such as asphalt, concrete, lumber, tree/shrub trimmings, sludge, dirt, rocks, trash, mud, snow, animal carcasses, and building materials. All debris shall be disposed of in accordance with all Federal, State, and local laws. The unfenced area behind Building 7108 may be used as a temporary storage area.

5.7.4.18 Range Support

5.7.4.18.1 Live Fire Ranges. The Contractor shall rebuild and repair live fire ranges by: building berms around ranges; digging holes and trenches for target boots and various needs; reshaping ranges; blading dirt/rock debris and vegetation from ranges; providing drainage and erosion control; installing sleeves for range flags; installing range boundary signs/structures; and maintaining and repairing access roads and target areas.

5.7.4.18.2 Range Control. The Contractor shall obtain clearance to gain access to range areas from the Range Control Officer one day prior to working on ranges. There are eight ranges and training areas on Fort Lee.

5.7.4.19 General Ground Structure Maintenance and Repair

The Contractor shall perform maintenance and unscheduled repair services for ground structures as directed by the COR. Ground structures include, but are not limited to: playground equipment, flag poles, benches, fencing (including gates), goal posts, planters, drainage culverts/systems, and athletic tracks and field equipment.

5.7.4.19.1 Outdoor Recreation Areas

5.7.4.19.1.1 Athletic Fields. The Contractor shall haul in fill dirt and tractor grade as necessary to maintain athletic and recreation areas for their designated use. The Contractor shall grade, level, sand, and build pitcher's mounds, and repair backstops to ready athletic fields for use. Fences surrounding these areas shall be repaired with like materials by the Contractor as needed. The Contractor shall mow grass during the growing season at the request of the COR. Requested trimming shall be accomplished by the user.

a. Spectator Bleachers. The Contractor shall move spectator bleachers to various locations on Fort Lee, and place, connect, and orient the bleachers. The Contractor shall complete this work with minimal damage to bleachers, turf, and other Government property.

5.7.4.19.1.2 Playgrounds. The Contractor shall install, repair, replace and remove a variety of playground equipment and shall assemble and install playground equipment in accordance with manufacturer's instructions and specifications. Upon request of the COR, the Contractor shall submit a plan for inspection and preventive maintenance of all playground equipment, such as monkey bars, swings, slides, and shall landscape and spread sand and wood chips in and around equipment (CDRL 507R002). Equipment shall be kept neat in appearance and in safe operating condition by the Contractor. The Contractor shall apply, spread, and level sand or wood chips in playground areas in amounts to match the existing grade of terrain after installation of equipment.

5.7.4.19.1.3 Flagpoles. The Contractor shall repair, maintain, replace, install, and remove flagpoles, including ropes, snaps, and pulleys.

5.7.4.19.2 Fencing and Gates. The Contractor shall perform maintenance and repair as required on all types of wire fencing and gates, including security chain link, non-security chain link fences, barbed wire posts and gates, razor ribbon, concertina wire, and various steel gates. Chains and protective wire barriers around

improvements or hazardous areas shall be maintained. Installation of new fence shall be accomplished by the Contractor as required. Fencing of secure areas shall be maintained to the requirements of AR 190-13 and AR 190-51. The Contractor shall:

- a. Repair and maintain fences to prevent rust or corrosion, keep fencing taut, keep ties and braces in place, and keep fence posts straight and firmly anchored in the ground;
- b. Replace and tighten wire or mesh fencing;
- c. Adjust and properly rehang gates so they operate without sagging;
- d. Keep holes under fencing filled and keep the fence free of both vegetation and trash.

5.7.4.19.2.2 Security Chain Link Fencing. The Contractor shall repair, replace, install, remove, and inspect security chain link fence and gates. The Contractor shall repair all security fencing in accordance with Priority 1 work. The Contractor shall enclose restricted areas, interior security buildings and enclosures, motor pools, Game Management fisheries, water catchments, structures, ammunition dumps, and other limited and excluded access areas with security chain link fence. The Contractor shall maintain drainage along fences.

5.7.4.19.2.3 Non-Security Chain Link Fence. The Contractor shall repair, replace, install, remove, and inspect fences at tennis courts, back stops, dug outs, dog kennels, school boundary fences, and cemeteries.

5.7.4.19.2.4 Barbed, Razor, and Concertina Wire Fences. The Contractor shall repair, replace, install, inspect, and remove barbed wire fences, gates, fence line/end posts, wire stays, and all fencing hardware for perimeter boundaries, interior enclosures, and other facilities. The Contractor shall repair, replace, install, remove, and inspect razor ribbon, concertina wire, and hardware along the roof edges of buildings and towers which form the perimeter of secured areas in conjunction with fencing and gates.

5.7.4.19.2.5 Cable Wire. The Contractor shall install, replace, inspect, and remove cable wire used for gates and as added security to perimeter fences.

5.7.4.19.2.6 Gates. The Contractor shall repair, replace, install, inspect, and remove swing or roller type metal gates, aluminum gates, scissor gates, gate hinges, gate posts, and gate stops of various sizes and gauge 1 to 6 in round stock pipe. Gates range from 2 to 8 feet high and 2 to 50 feet wide.

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